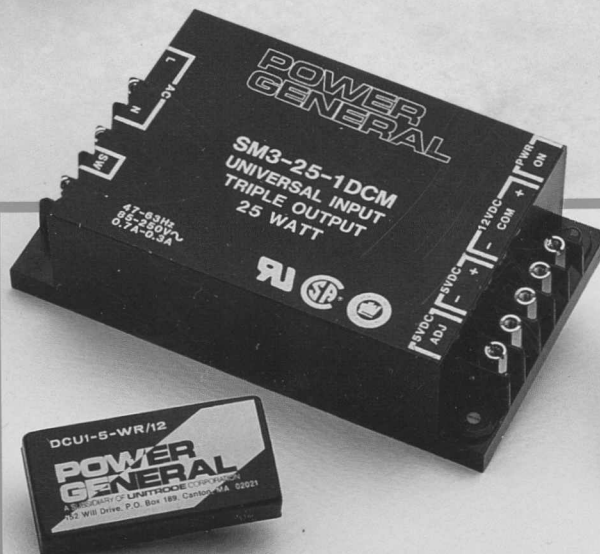
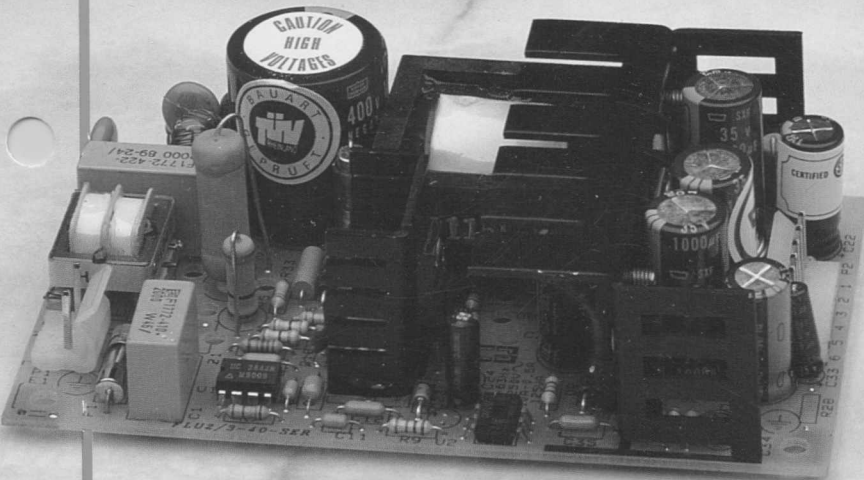
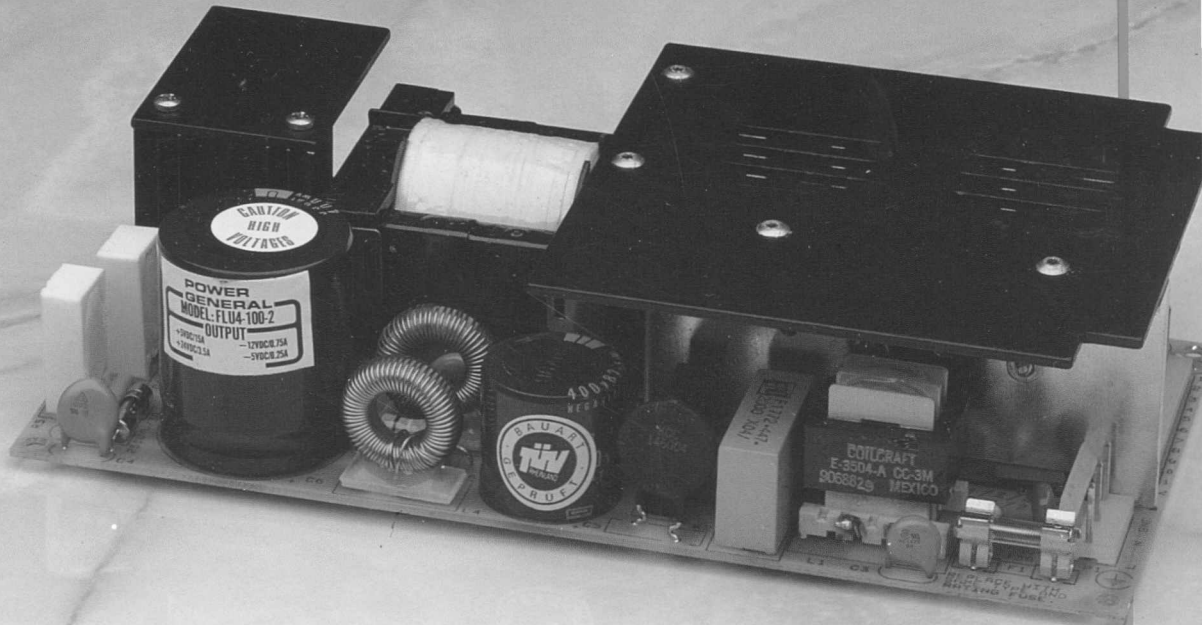
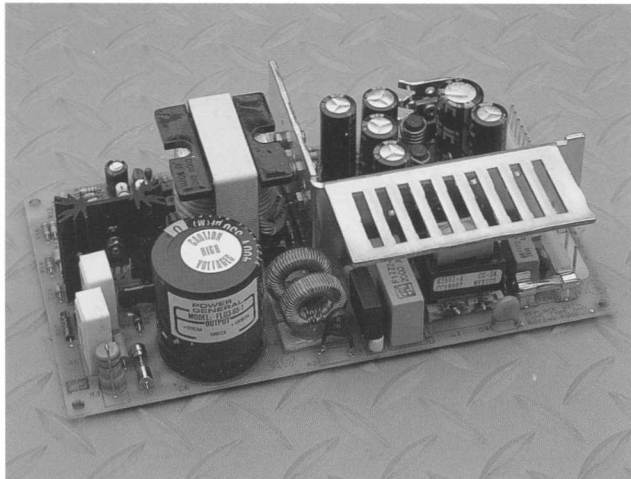
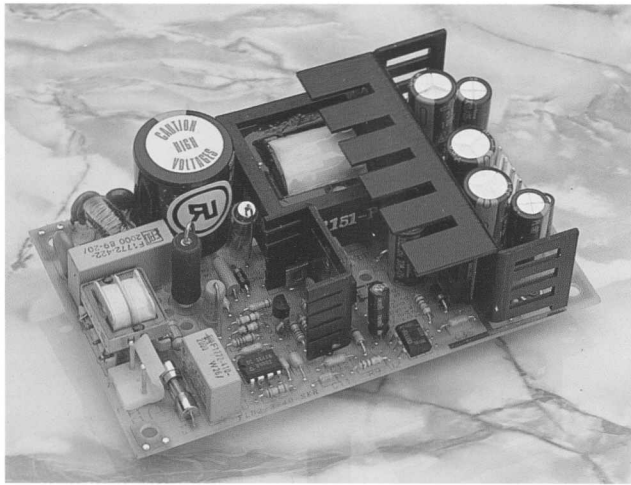


# POWER GENERAL



SHORT FORM CATALOG

# INTRODUCTION



We at Power General are happy to provide you with our latest Short Form Catalog. It reflects our continued transition to new, more feature-laden high quality products. Combined with our continued improvement in customer service, we feel we are now offering more of what our customers deserve: Products that surpass customer needs with features, reliability and better service.

Our development efforts continue to yield major new offerings. Power General's new MDU switcher line which is certified to the UL544 standard is such an example. In addition, we continue to achieve progress in production cycle time reductions, total quality improvement, and leadtimes measured by customer request. We also have exciting field reliability data on our newer products. We'd be happy to provide you with details.

Thank you for your interest in Power General.

Charlie Aubee  
Vice president - General Manager



## POWER GENERAL

152 Will Drive, PO Box 189, Canton, MA 02021-3798  
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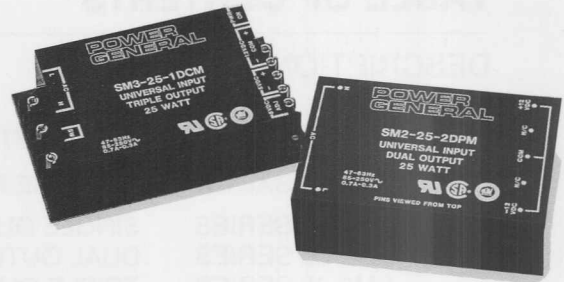
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# UNIVERSAL INPUT VOLTAGE - ENCAPSULATED SWITCHERS

- Universal Input Voltage Range
- UL/CSA/VDE Safety Approvals
- FCC Class "A" Input Filter
- Adjustable Output
- Ultra-High MTBF's
- Compact, Fully Encapsulated Package



## Single Output Models

PCB Mount (PM) and Chassis Mount (CM)

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	CM1	PM1		
SM1-25-1	85-265 VAC	5 VDC	5.00A							0.1%	0.4%	65%	25W
SM1-25-2	85-265 VAC	9 VDC	2.80A							0.1%	0.4%	65%	25W
SM1-25-3	85-265 VAC	12 VDC	2.10A							0.1%	0.4%	65%	25W
SM1-25-4	85-265 VAC	15 VDC	1.70A							0.1%	0.4%	65%	25W
SM1-25-5	85-265 VAC	24 VDC	1.05A							0.1%	0.4%	65%	25W

Dimensions (W x L x H): PM 2.50 x 3.50 x 1.38 inches

CM 2.76 x 4.70 x 1.38 inches

MTBF: 165,000 hours minimum

## Dual Output Models

PCB Mount (PM) and Chassis Mount (CM)

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1	V2		
SM2-25-1	85-265 VAC	+5 VDC	4.00A	-5 VDC	1.60A					0.5%	0.3%	65%	25W
SM2-25-2	85-265 VAC	+12 VDC	1.80A	-12 VDC	1.80A					2.0%	2.0%	65%	25W
SM2-25-3	85-265 VAC	+15 VDC	1.60A	-15 VDC	1.60A					2.0%	2.0%	65%	25W

Dimensions (W x L x H): PM 2.75 x 4.06 x 1.38 inches

CM 2.76 x 4.70 x 1.38 inches

MTBF: 165,000 hours minimum

## Triple Output Models

PCB Mount (PM) and Chassis Mount (CM)

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1	V2/V3		
SM3-25-1	85-265 VAC	+5 VDC	4.00A	+12 VDC	0.30A	-12 VDC	0.30A			0.5%	0.3%	65%	25W
SM3-25-2	85-265 VAC	+5 VDC	4.00A	+15 VDC	0.30A	-15 VDC	0.30A			0.5%	0.3%	65%	25W

Dimensions (W x L x H): PM 2.75 x 4.06 x 1.38 inches

CM 2.76 x 4.70 x 1.38 inches

MTBF: 165,000 hours minimum

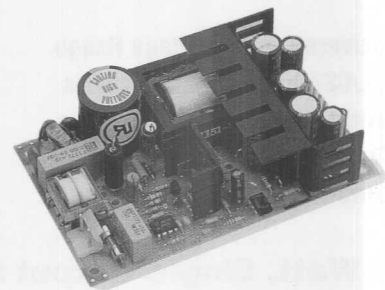
**POWER GENERAL**

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## UNIVERSAL INPUT VOLTAGE - UL544 APPROVED SWITCHERS

- Approved to UL544 Medical Safety Standard
- Universal Input Voltage Range
- VDE/FCC Class "B" Input Line Filter
- 0% Minimum Load
- Ultra High MTBF's
- Compact Size



### 40 Watts, Dual Output Units

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1	V2		
MDU2-40-1	85-265 VAC	+5 VDC (ADJ)	5.00A	+12 VDC	3.00A (5.0A PK)					0.1%	3.0%	65%	40W
MDU2-40-2	85-265 VAC	+5 VDC (ADJ)	5.00A	+15 VDC	2.00A (3.0A PK)					0.1%	3.0%	65%	40W
MDU2-40-3	85-265 VAC	+5 VDC (ADJ)	5.00A	+24 VDC	1.50A (2.0A PK)					0.1%	3.0%	65%	40W
MDU2-40-4	85-265 VAC	+5 VDC (ADJ)	5.00A	+28 VDC	1.00A (1.5A PK)					0.1%	3.0%	65%	40W

Dimensions (W x L x H): 3.00 x 5.00 x 1.50 inches  
MTBF: 205,000 hours minimum

### 40 Watts, Triple Output Units

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1/V3	V2		
MDU3-40-1	85-265 VAC	+5 VDC (ADJ)	5.00A	+12 VDC	3.00A (5.0A PK)	-12 VDC	0.70A			0.1%	3.0%	65%	40W
MDU3-40-2	85-265 VAC	+5 VDC (ADJ)	5.00A	+12 VDC	3.00A (5.0A PK)	-5 VDC	1.00A			0.1%	3.0%	65%	40W
MDU3-40-3	85-265 VAC	+5 VDC (ADJ)	5.00A	+15 VDC	2.00A (3.0A PK)	-15 VDC	0.60A			0.1%	3.0%	65%	40W
MDU3-40-4	85-265 VAC	+5 VDC (ADJ)	5.00A	+24 VDC	1.50A (2.0A PK)	-12 VDC	0.70A			0.1%	3.0%	65%	40W

Dimensions (W x L x H): 3.00 x 5.00 x 1.50 inches  
MTBF: 205,000 hours minimum

## UNIVERSAL INPUT VOLTAGE - LOW PROFILE SWITCHERS

- Universal Input Voltage Range
- 1.2 Inch Profile
- VDE/FCC Class "B" Input Line Filter
- UL/CSA/VDE Approved
- 0% Minimum Load
- Ultra High MTBF's

### 40 Watts, Triple Output

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1/V3	V3		
SLP3-40-1	85-265 VAC	+5 VDC (ADJ)	5.00A	+12 VDC	3.00A (5.0A PK)	-12 VDC	0.70A			0.1%	3.0%	62%	40W
SLP3-40-2	85-265 VAC	+5 VDC (ADJ)	5.00A	+12 VDC	3.00A (5.0A PK)	-5 VDC	1.00A			0.1%	3.0%	62%	40W
SLP3-40-3	85-265 VAC	+5 VDC (ADJ)	5.00A	+15 VDC	2.00A (3.0A PK)	-15 VDC	0.60A			0.1%	3.0%	62%	40W
SLP3-40-4	85-265 VAC	+5 VDC (ADJ)	5.00A	+24 VDC	1.50A (2.0A PK)	-12 VDC	0.70A			0.1%	3.0%	62%	40W

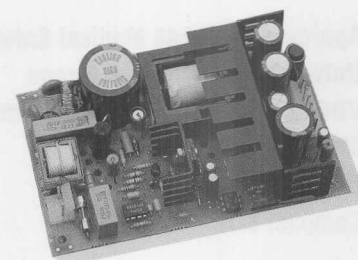
Dimensions (W x L x H): 3.95 x 6.30 x 1.21 inches  
MTBF: 165,000 hours minimum

**POWER GENERAL**

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Tel. (617) 828-6216 Fax (617) 828-3215

# UNIVERSAL INPUT VOLTAGE - OPEN FRAME SWITCHERS

- Universal Input Voltage Range
- UL/CSA/VDE Safety Approvals
- VDE/FCC Class "B" Input Filter
- Compact Size
- Ultra-High MTBF's



## 40 Watt, Single Output Models

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1	V2		
FLU1-40-1	85-265 VAC	5 VDC (ADJ)	8.00A							0.5%		62%	40W
FLU1-40-2	85-265 VAC	9 VDC (ADJ)	4.45A							0.5%		68%	40W
FLU1-40-3	85-265 VAC	12 VDC (ADJ)	3.35A							0.5%		72%	40W
FLU1-40-4	85-265 VAC	15 VDC (ADJ)	2.70A							0.5%		72%	40W
FLU1-40-5	85-265 VAC	24 VDC (ADJ)	1.70A							0.5%		75%	40W
FLU1-40-6	85-265 VAC	28 VDC (ADJ)	1.45A							0.5%		75%	40W

Dimensions (W x L x H): 3.00 x 5.00 x 1.50 inches  
MTBF: 220,000 hours minimum

## 40 Watt Dual Output Models

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1	V2		
FLU2-40-1	85-265 VAC	+5 VDC (ADJ)	5.00A	+12 VDC	3.00A (5.0A PK)					1.0%	3.0%	65%	40W
FLU2-40-2	85-265 VAC	+5 VDC (ADJ)	5.00A	+15 VDC	2.00A (3.0A PK)					1.0%	3.0%	65%	40W
FLU2-40-3	85-265 VAC	+5 VDC (ADJ)	5.00A	+24 VDC	1.50A (2.0A PK)					1.0%	3.0%	65%	40W
FLU2-40-4	85-265 VAC	+5 VDC (ADJ)	5.00A	+28 VDC	1.00A (1.5A PK)					1.0%	3.0%	65%	40W
FLU2-40-5	85-265 VAC	5 VDC (ISO)	6.00A	5 VDC (ISO)	2.00A					1.0%	1.0%	65%	40W
FLU2-40-6	85-265 VAC	12 VDC (ISO)	3.00A	12 VDC (ISO)	2.20A					1.0%	1.0%	65%	40W
FLU2-40-7	85-265 VAC	15 VDC (ISO)	2.50A	15 VDC (ISO)	2.20A					1.0%	1.0%	65%	40W

Dimensions (W x L x H): 3.00 x 5.00 x 1.50 inches  
MTBF: 205,000 hours minimum

## 40 Watt Triple Output Models

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1/V3	V2		
FLU3-40-1	85-265 VAC	+5 VDC (ADJ)	5.00A	+12 VDC	3.00A (5.0A PK)	-12 VDC	0.70A			1.0%	3.0%	65%	40W
FLU3-40-2	85-265 VAC	+5 VDC (ADJ)	5.00A	+12 VDC	3.00A (5.0A PK)	-5 VDC	1.00A			1.0%	3.0%	65%	40W
FLU3-40-3	85-265 VAC	+5 VDC (ADJ)	5.00A	+15 VDC	2.00A (3.0A PK)	-15 VDC	0.60A			1.0%	3.0%	65%	40W
FLU3-40-4	85-265 VAC	+5 VDC (ADJ)	5.00A	+24 VDC	1.50A (2.0A PK)	-12 VDC	0.70A			1.0%	3.0%	65%	40W
FLU3-40-5	85-265 VAC	5 VDC (ISO)	6.00A	12V (ISO)	0.50A	12 VDC (ISO)	0.50A			1.0%	3.0%	65%	40W
FLU3-40-6	85-265 VAC	5 VDC (ISO)	6.00A	15V (ISO)	0.50A	15 VDC (ISO)	0.50A			1.0%	3.0%	65%	40W

Dimensions (W x L x H): 3.00 x 5.00 x 1.50 inches  
MTBF: 205,000 hours minimum

## 50 Watt Dual Output

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1	V2		
FLU2-50-1	85-265 VAC	+5 VDC (ADJ)	6.00A	+12 VDC	3.00A (5.0A PK)					0.4%	5.0%	65%	50W
FLU2-50-2	85-265 VAC	+5 VDC (ADJ)	6.00A	+24 VDC	1.50A (2.0A PK)					0.4%	5.0%	65%	50W

Dimensions (W x L x H): 4.00 x 5.00 x 1.50 inches  
MTBF: 200,000 hours minimum

**POWER GENERAL**

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# UNIVERSAL INPUT VOLTAGE - OPEN FRAME SWITCHERS

- Brown-out Protection
- Overvoltage Protection
- Minimum Output Loading
- Overcurrent/Short Circuit Protection
- 2 Year Warranty



## Triple Output 50 Watt

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1	V2/V3		
FLU3-50-1	85-265 VAC	+5 VDC (ADJ)	6.00A	+12 VDC	3.00A (5.0APK)	-12 VDC	0.50A			0.4%	5.0%	65%	50W
FLU3-50-2	85-265 VAC	+5 VDC (ADJ)	6.00A	+12 VDC	3.00A (5.0APK)	-5 VDC	0.50A			0.4%	5.0%	65%	50W

Dimensions (W x L x H): 4.00 x 5.00 x 1.50 inches  
MTBF: 195,000 hours minimum

## Dual Output 60 Watt

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1	V2/V3		
FLU2-65-1	85-265 VAC	+5 VDC (ADJ)	8.50A	+12 VDC	3.00A					1.0%	3.0%	65%	65W
FLU2-65-2	85-265 VAC	+5 VDC (ADJ)	5.00A	+12 VDC	5.00A					1.0%	3.0%	65%	65W
FLU2-65-3	85-265 VAC	+5 VDC (ADJ)	8.50A	+24 VDC	2.50A					1.0%	3.0%	65%	65W
FLU2-65-4*	85-265 VAC	+5 VDC (ADJ)	11.00A	5 VDC (ISO)	2.00A					1.0%	1.0%	65%	65W
FLU2-65-5*	85-265 VAC	+5 VDC (ADJ)	11.00A	12 VDC (ISO)	2.00A					1.0%	1.0%	65%	65W

Dimensions (W x L x H): 4.00 x 6.50 x 1.85 inches \*4.00 x 7.25 x 2.00 inches  
MTBF: 185,000 hours minimum

## Triple Output 60 Watt

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1/V3	V2		
FLU3-65-1	85-265 VAC	+5 VDC (ADJ)	6.00A	+12 VDC	3.00A (5.0A PK)	5 VDC (ISO)	2.00A			1.0%	3.0%	65%	65W
FLU3-65-2	85-265 VAC	+5 VDC (ADJ)	6.00A	+12 VDC	3.00A (5.0A PK)	12 VDC (ISO)	1.00A			1.0%	3.0%	65%	65W
FLU3-65-3	85-265 VAC	+5 VDC (ADJ)	6.00A	+24 VDC	1.50A (2.5A PK)	5 VDC (ISO)	2.00A			1.0%	3.0%	65%	65W
FLU3-65-4	85-265 VAC	+5 VDC (ADJ)	6.00A	+24 VDC	1.50A (2.5A PK)	12 VDC (ISO)	1.00A			1.0%	3.0%	65%	65W
FLU3-65-5	85-265 VAC	+5 VDC (ADJ)	6.00A	+12 VDC	3.00A	-12 VDC	3.00A			1.0%	3.0%	65%	65W
FLU3-65-6	85-265 VAC	+5 VDC (ADJ)	6.00A	+15 VDC	2.00A	-15 VDC	2.00A			1.0%	3.0%	65%	65W
FLU3-65-7	85-265 VAC	+5 VDC (ADJ)	10.00A	+12 VDC	1.50A	-12 VDC	1.50A			1.0%	3.0%	65%	65W
FLU3-65-8	85-265 VAC	5 VDC (ISO)	10.00A	5 VDC (ISO)	2.00A	12 VDC (ISO)	0.50A			1.0%	3.0%	65%	65W
FLU3-65-9	85-265 VAC	+5 VDC (ADJ)	10.00A	+15 VDC	1.50A	-15 VDC	1.50A			1.0%	3.0%	65%	65W
FLU3-65-10	85-265 VAC	5 VDC (ADJ)	10.00A	12 VDC (ISO)	2.00A	12 VDC (ISO)	0.50A			1.0%	3.0%	65%	65W

Dimensions (W x L x H): 4.00 x 7.25 x 2.00 inches  
MTBF: 175,000 hours minimum

## Quad Output 60 Watt

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1/V3/V4	V2		
FLU4-65-1	85-265 VAC	+5 VDC (ADJ)	6.00A	+12 VDC	5.00A	-12 VDC	1.00A	-5 VDC	0.20A	1.0%	3.0%	65%	65W
FLU4-65-2	85-265 VAC	+5 VDC (ADJ)	6.00A	+24 VDC	2.50A	-12 VDC	1.00A	-5 VDC	0.20A	1.0%	3.0%	65%	65W
FLU4-65-3	85-265 VAC	+5 VDC (ADJ)	6.00A	+12 VDC	2.50A	-12 VDC	2.50A	5 VDC (ISO)	2.00A	1.0%	3.0%	65%	65W
FLU4-65-4	85-265 VAC	+5 VDC (ADJ)	6.00A	+15 VDC	2.00A	-15 VDC	2.00A	5 VDC (ISO)	2.00A	1.0%	3.0%	65%	65W
FLU4-65-5	85-265 VAC	+5 VDC (ADJ)	6.00A	+12 VDC	2.50A	-12 VDC	2.50A	24 VDC (ISO)	1.00A	1.0%	3.0%	65%	65W
FLU4-65-6	85-265 VAC	+5 VDC (ADJ)	10.00A	+12 VDC	1.50A	-12 VDC	1.50A	5.2 VDC (ISO)	1.50A	1.0%	3.0%	65%	65W
FLU4-65-7	85-265 VAC	+5 VDC (ADJ)	10.00A	+15 VDC	1.50A	-15 VDC	1.50A	5.2 VDC (ISO)	1.50A	1.0%	3.0%	65%	65W

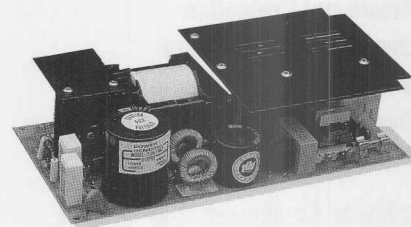
Dimensions (W x L x H): 4.00 x 7.25 x 2.00 inches  
MTBF: 175,000 hours minimum

# POWER GENERAL

152 Will Drive, PO Box 189, Canton, MA 02021-3798  
Tel. (617) 828-6216 Fax (617) 828-3215

# UNIVERSAL INPUT VOLTAGE - OPEN FRAME SWITCHERS

- Universal Input Voltage Range
- UL/CSA/VDE Safety Approvals
- VDE/FCC Class "B" Input Filter
- Compact Size
- Ultra-High MTBF's



## Single Output 100 Watt

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1			
FLU1-100-1	85-265 VAC	+5 VDC (ADJ)	20.00A							0.2%		65%	100W
FLU1-100-2	85-265 VAC	+12 VDC (ADJ)	8.40A							0.2%		65%	100W
FLU1-100-3	85-265 VAC	+15 VDC	6.70A							0.2%		65%	100W
FLU1-100-4	85-265 VAC	+24 VDC	4.20A							0.2%		65%	100W
FLU1-100-5	85-265 VAC	+28 VDC	3.60A							0.2%		65%	100W

Dimensions (W x L x H): 4.00 x 8.00 x 1.95 inches

MTBF: 175,000 hours minimum

## Triple Output 100 Watt

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1/V3	V2		
FLU3-100-1	85-265 VAC	+5 VDC (ADJ)	15.00A	+12 VDC	8.00A	-5 VDC	1.00A			1.0%	3.0%	65%	100W
FLU3-100-2	85-265 VAC	+5 VDC (ADJ)	15.00A	+12 VDC	8.00A	-12 VDC	1.00A			1.0%	3.0%	65%	100W
FLU3-100-3	85-265 VAC	+5 VDC (ADJ)	15.00A	+24 VDC	4.00A	-5 VDC	1.00A			1.0%	3.0%	65%	100W
FLU3-100-4	85-265 VAC	+5 VDC (ADJ)	15.00A	+24 VDC	4.00A	-12 VDC	1.00A			1.0%	3.0%	65%	100W
FLU3-100-5	85-265 VAC	5 VDC (ISO)	15.00A	+12 VDC	3.00A	-12 VDC	3.00A			1.0%	3.0%	65%	100W
FLU3-100-6	85-265 VAC	5 VDC (ISO)	15.00A	+15 VDC	2.20A	-15 VDC	2.20A			1.0%	3.0%	65%	100W

Dimensions (W x L x H): 4.00 x 8.00 x 2.20 inches

MTBF: 165,000 hours minimum

## Quad Output 100 Watt

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1	V2/V3/V4		
FLU4-100-1	85-265 VAC	+5 VDC (ADJ)	15.00A	+12VDC	7.50A	-12 VDC	0.80A	-5 VDC	0.25A	1.0%	3.0%	65%	100W
FLU4-100-2	85-265 VAC	+5 VDC (ADJ)	15.00A	+24VDC	3.50A	-12 VDC	0.80A	-5 VDC	0.25A	1.0%	3.0%	65%	100W
FLU4-100-3	85-265 VAC	+5 VDC (ADJ)	15.00A	+12VDC	3.00A	-12 VDC	3.00A	5 VDC (ISO)	2.05A	1.0%	3.0%	65%	100W
FLU4-100-4	85-265 VAC	+5 VDC (ADJ)	15.00A	+15VDC	2.20A	-15 VDC	2.20A	5 VDC (ISO)	2.05A	1.0%	3.0%	65%	100W
FLU4-100-5	85-265 VAC	+5 VDC (ADJ)	15.00A	+12VDC	3.00A	-12 VDC	3.00A	5 VDC (ISO)	2.05A	1.0%	3.0%	65%	100W

Dimensions (W x L x H): 4.00 x 8.00 x 2.20 inches

MTBF: 165,000 hours minimum

## Quad Output 150 Watt (Input Jumper Selectable)

Model Number	Input Voltage Range	Output No. (V1)		Output No. (V2)		Output No. (V3)		Output No. (V4)		Load Regulation		Efficiency	Max Output Power
		Voltage	Current	Voltage	Current	Voltage	Current	Voltage	Current	V1	V2/V3/V4		
4155-1	115/230 VAC	5 VDC (ADJ)	15.00A	12V	4.00A (8.0A PK)	12V	4.00A (8.0A PK)	5V	4.00A (8.0A PK)	1.0%	2.0%	75%	150W
4155-2	115/230 VAC	5 VDC (ADJ)	15.00A	12V	4.00A (8.0A PK)	12V	4.00A (8.0A PK)	12V	6.00A (8.0A PK)	1.0%	2.0%	75%	150W
4155-3	115/230 VAC	5 VDC (ADJ)	15.00A	12V	4.00A (8.0A PK)	12V	4.00A (8.0A PK)	15V	4.00A (6.0A PK)	1.0%	2.0%	75%	150W
4155-4	115/230 VAC	5 VDC (ADJ)	15.00A	12V	4.00A (8.0A PK)	12V	4.00A (8.0A PK)	24V	3.00A (8.0A PK)	1.0%	2.0%	75%	150W
4155-5	115/230 VAC	5 VDC (ADJ)	15.00A	15V	3.00A (6.0A PK)	15V	3.00A (6.0A PK)	5V	4.00A	1.0%	2.0%	75%	150W

Dimensions (W x L x H): 4.00 x 9.50 x 2.20 inches

MTBF: 125,000 hours minimum

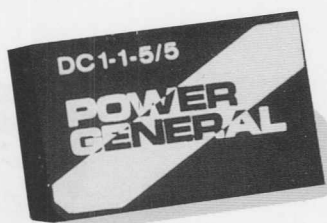
# POWER GENERAL

152 Will Drive, PO Box 189, Canton, MA 02021-3798  
Tel. (617) 828-6216 Fax (617) 828-3215



# ENCAPSULATED MODULES - DC-DC CONVERTERS

- Ultra High Reliability
- Compact Size
- Industry Standard Pin-Out
- Indefinite Short Circuit Protection
- 5 Year Warranty



## 1 WATT ISOLATED, SINGLE AND DUAL OUTPUT

1 WATT SINGLE & DUAL OUTPUT, ENCAPSULATED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
DC1-1-5/5	5 VDC $\pm$ 10%	5 VDC $\pm$ 1%	100 mA	Figure 1
DC1-1-5/12	5 VDC $\pm$ 10%	12 VDC $\pm$ 5%	80 mA	Figure 1
DC1-1-5/15	5 VDC $\pm$ 10%	15 VDC $\pm$ 5%	65 mA	Figure 1
DC1-1-12/5	12 VDC $\pm$ 10%	5 VDC $\pm$ 1%	100 mA	Figure 1
DC1-1-12/12	12 VDC $\pm$ 10%	12 VDC $\pm$ 5%	80 mA	Figure 1
DC1-1-12/15	12 VDC $\pm$ 10%	15 VDC $\pm$ 5%	65 mA	Figure 1
DC2-1-5/12A*	5 VDC $\pm$ 10%	$\pm$ 12 VDC $\pm$ 5%	$\pm$ 40 mA	Figure 1
DC2-1-5/15A*	5 VDC $\pm$ 10%	$\pm$ 15 VDC $\pm$ 5%	$\pm$ 33 mA	Figure 1
DC2-1-12/12A*	12 VDC $\pm$ 10%	$\pm$ 12 VDC $\pm$ 5%	$\pm$ 40 mA	Figure 1
DC2-1-12/15A*	12 VDC $\pm$ 10%	$\pm$ 15 VDC $\pm$ 5%	$\pm$ 33 mA	Figure 1
DC2-1-5/12	5 VDC $\pm$ 10%	$\pm$ 12 VDC $\pm$ 5%	$\pm$ 40 mA	Figure 1
DC2-1-5/15	5 VDC $\pm$ 10%	$\pm$ 15 VDC $\pm$ 5%	$\pm$ 33 mA	Figure 1
DC2-1-12/12	12 VDC $\pm$ 10%	$\pm$ 12 VDC $\pm$ 5%	$\pm$ 40 mA	Figure 1
DC2-1-12/15	12 VDC $\pm$ 10%	$\pm$ 15 VDC $\pm$ 5%	$\pm$ 33 mA	Figure 1

## 2 WATT ISOLATED, SINGLE AND DUAL OUTPUT

2 WATT SINGLE & DUAL OUTPUT, ENCAPSULATED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
DC1-2-5/5	4.60 to 5.50 VDC	5 VDC $\pm$ 3%	400 mA	Figure 2
DC1-2-5/5A	4.60 to 5.50 VDC	5 VDC $\pm$ 3%	400 mA	Figure 3
DC1-2-5/9A	4.60 to 5.50 VDC	9 VDC $\pm$ 3%	222 mA	Figure 3
DC1-2-5/12	4.60 to 5.50 VDC	12 VDC $\pm$ 3%	167 mA	Figure 2
DC1-2-5/12A	4.60 to 5.50 VDC	12 VDC $\pm$ 3%	167 mA	Figure 3
DC1-2-5/15	4.60 to 5.50 VDC	15 VDC $\pm$ 3%	133 mA	Figure 2
DC1-2-5/15A	4.60 to 5.50 VDC	15 VDC $\pm$ 3%	133 mA	Figure 3
DC1-2-5/24A	4.60 to 5.50 VDC	24 VDC $\pm$ 3%	83 mA	Figure 3
DC1-2-12/5	10.80 to 13.20 VDC	5 VDC $\pm$ 3%	400 mA	Figure 2
DC1-2-12/5A	10.80 to 13.20 VDC	5 VDC $\pm$ 3%	400 mA	Figure 3
DC1-2-12/9A	10.80 to 13.20 VDC	9 VDC $\pm$ 3%	222 mA	Figure 3
DC1-2-12/12	10.80 to 13.20 VDC	12 VDC $\pm$ 3%	167 mA	Figure 2
DC1-2-12/12A	10.80 to 13.20 VDC	12 VDC $\pm$ 3%	167 mA	Figure 3

\* With alternate pins designation.

All dimensions are in INCHES  
MM

SINGLE OUTPUT MODELS	
PIN	DESIGNATION
1, 24	+V INPUT
12, 13	-V INPUT
11, 14	+V OUTPUT
10, 15	-V OUTPUT
2, 3, 22, 23	NO CONNECTION

DUAL OUTPUT MODELS (WITH SUFFIX 'A')	
PIN	DESIGNATION
1, 2, 3	+V INPUT
22, 23, 24	-V INPUT
15	+V OUTPUT
13	-V OUTPUT
10, 11	V COMMON
12, 14	NO CONNECTION

DUAL OUTPUT MODELS (WITHOUT SUFFIX 'A')	
PIN	DESIGNATION
1, 24	+V INPUT
12, 13	-V INPUT
11, 14	+V1 OUTPUT
10, 15	-V1 OUTPUT
3, 22	+V2 OUTPUT
2, 23	-V2 OUTPUT

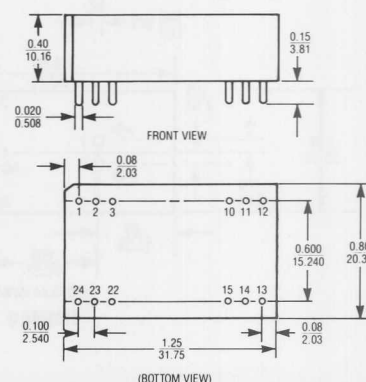


FIGURE 1

**POWER GENERAL**

152 Will Drive, PO Box 189, Canton, MA 02021-3798  
Tel. (617) 828-6216 Fax (617) 828-3215

# ENCAPSULATED MODULES - DC-DC CONVERTERS

- Ultra High Reliability
- Six Sided Shielding
- Industry Standard Pin-Out
- Indefinite Short Circuit Protection
- 5 Year Warranty



## 2 WATT ISOLATED, SINGLE AND DUAL OUTPUT

2 WATT SINGLE & DUAL OUTPUT, ENCAPSULATED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
DC1-2-12/15	10.80 to 13.20 VDC	15 VDC $\pm 3\%$	133 mA	Figure 2
DC1-2-12/15A	10.80 to 13.20 VDC	15 VDC $\pm 3\%$	133 mA	Figure 3
DC1-2-12/24A	10.80 to 13.20 VDC	24 VDC $\pm 3\%$	83 mA	Figure 3
DC1-2-24/5	21.60 to 26.40 VDC	5 VDC $\pm 3\%$	400 mA	Figure 2
DC1-2-24/5A	21.60 to 26.40 VDC	5 VDC $\pm 3\%$	400 mA	Figure 3
DC1-2-24/9A	21.60 to 26.40 VDC	9 VDC $\pm 3\%$	222 mA	Figure 3
DC1-2-24/12A	21.60 to 26.40 VDC	12 VDC $\pm 3\%$	167 mA	Figure 3
DC1-2-24/15A	21.60 to 26.40 VDC	15 VDC $\pm 3\%$	133 mA	Figure 3
DC1-2-24/24A	21.60 to 26.40 VDC	24 VDC $\pm 3\%$	83 mA	Figure 3
DC1-2-28/5A	25.20 to 30.80 VDC	5 VDC $\pm 3\%$	400 mA	Figure 3
DC1-2-28/9A	25.20 to 30.80 VDC	9 VDC $\pm 3\%$	222 mA	Figure 3
DC1-2-28/12A	25.20 to 30.80 VDC	12 VDC $\pm 3\%$	167 mA	Figure 3
DC1-2-28/15A	25.20 to 30.80 VDC	15 VDC $\pm 3\%$	133 mA	Figure 3
DC1-2-28/24A	25.20 to 30.80 VDC	24 VDC $\pm 3\%$	83 mA	Figure 3
DC1-2-48/5	43.20 to 52.80 VDC	5 VDC $\pm 3\%$	400 mA	Figure 2
DC1-2-48/5A	43.20 to 52.80 VDC	5 VDC $\pm 3\%$	400 mA	Figure 3
DC1-2-48/9A	43.20 to 52.80 VDC	9 VDC $\pm 3\%$	222 mA	Figure 3
DC1-2-48/12A	43.20 to 52.80 VDC	12 VDC $\pm 3\%$	167 mA	Figure 3
DC1-2-48/15A	43.20 to 52.80 VDC	15 VDC $\pm 3\%$	133 mA	Figure 3
DC1-2-48/24A	43.20 to 52.80 VDC	24 VDC $\pm 3\%$	83 mA	Figure 3
DC2-2-5/12	4.60 to 5.50 VDC	$\pm 12$ VDC $\pm 2\%$	$\pm 80$ mA	Figure 2
DC2-2-5/15	4.60 to 5.50 VDC	$\pm 15$ VDC $\pm 2\%$	$\pm 65$ mA	Figure 2
DC2-2-12/12	10.80 to 13.20 VDC	$\pm 12$ VDC $\pm 2\%$	$\pm 80$ mA	Figure 2
DC2-2-12/15	10.80 to 13.20 VDC	$\pm 15$ VDC $\pm 2\%$	$\pm 65$ mA	Figure 2
DC2-2-24/12	21.60 to 26.40 VDC	$\pm 12$ VDC $\pm 2\%$	$\pm 80$ mA	Figure 2
DC2-2-24/15	21.60 to 26.40 VDC	$\pm 15$ VDC $\pm 2\%$	$\pm 65$ mA	Figure 2
DC2-2-28/12	25.20 to 30.80 VDC	$\pm 12$ VDC $\pm 2\%$	$\pm 80$ mA	Figure 2
DC2-2-28/15	25.20 to 30.80 VDC	$\pm 15$ VDC $\pm 2\%$	$\pm 65$ mA	Figure 2
DC2-2-48/12	43.20 to 52.80 VDC	$\pm 12$ VDC $\pm 2\%$	$\pm 80$ mA	Figure 2
DC2-2-48/15	43.20 to 52.80 VDC	$\pm 15$ VDC $\pm 2\%$	$\pm 65$ mA	Figure 2

All dimensions are in INCHES  
MM

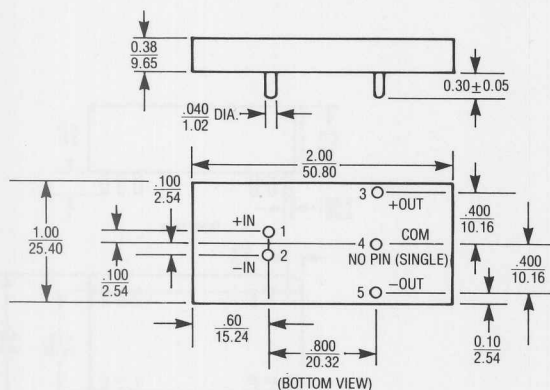


FIGURE 2

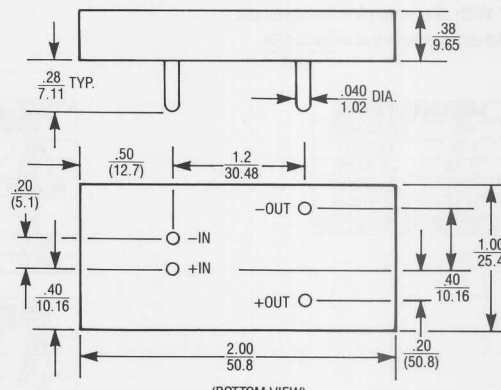


FIGURE 3

**POWER GENERAL**

152 Will Drive, PO Box 189, Canton, MA 02021-3798  
Tel. (617) 828-6216 Fax (617) 828-3215

# DC-DC CONVERTERS

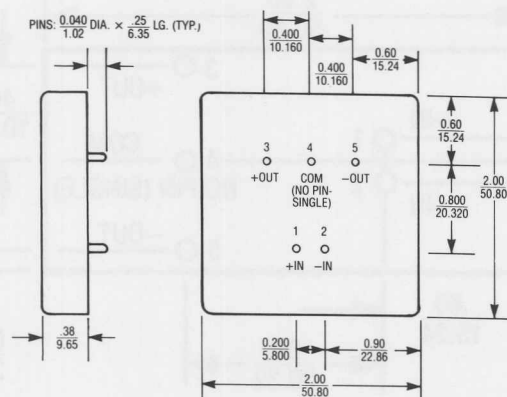
- Ultra High Reliability
- Six Sided Shielding
- Industry Standard Pin-Out
- Indefinite Short Circuit Protection
- 5 Year Warranty



## 5 WATT ISOLATED, SINGLE AND DUAL OUTPUT

5 TO 6 WATT SINGLE & DUAL OUTPUT, ENCAPSULATED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
DC1-5-5/5	4.75 to 5.50 VDC	5 VDC $\pm$ 0.5%	1A	Figure 4
DC1-5-12/5	10.80 to 13.20 VDC	5 VDC $\pm$ 0.5%	1A	Figure 4
DC1-5-24/5	21.60 to 26.40 VDC	5 VDC $\pm$ 0.5%	1A	Figure 4
DC1-5-28/5	25.20 to 30.80 VDC	5 VDC $\pm$ 0.5%	1A	Figure 4
DC1-5-48/5	43.20 to 52.80 VDC	5 VDC $\pm$ 0.5%	1A	Figure 4
DC1-5-5/9	4.75 to 5.50 VDC	9 VDC $\pm$ 0.5%	600 mA	Figure 4
DC1-5-12/9	10.80 to 13.20 VDC	9 VDC $\pm$ 0.5%	600 mA	Figure 4
DC1-5-24/9	21.60 to 26.40 VDC	9 VDC $\pm$ 0.5%	600 mA	Figure 4
DC1-5-28/9	25.20 to 30.80 VDC	9 VDC $\pm$ 0.5%	600 mA	Figure 4
DC1-5-48/9	43.20 to 52.80 VDC	9 VDC $\pm$ 0.5%	600 mA	Figure 4
DC1-5-5/12	4.75 to 5.50 VDC	12 VDC $\pm$ 0.5%	500 mA	Figure 4
DC1-5-12/12	10.80 to 13.20 VDC	12 VDC $\pm$ 0.5%	500 mA	Figure 4
DC1-5-24/12	21.60 to 26.40 VDC	12 VDC $\pm$ 0.5%	500 mA	Figure 4
DC1-5-28/12	25.20 to 30.80 VDC	12 VDC $\pm$ 0.5%	500 mA	Figure 4
DC1-5-48/12	43.20 to 52.80 VDC	12 VDC $\pm$ 0.5%	500 mA	Figure 4
DC1-5-5/15	4.75 to 5.50 VDC	15 VDC $\pm$ 0.5%	400 mA	Figure 4
DC1-5-12/15	10.80 to 13.20 VDC	15 VDC $\pm$ 0.5%	400 mA	Figure 4
DC1-5-24/15	21.60 to 26.40 VDC	15 VDC $\pm$ 0.5%	400 mA	Figure 4
DC1-5-28/15	25.20 to 30.80 VDC	15 VDC $\pm$ 0.5%	400 mA	Figure 4
DC1-5-48/15	43.20 to 52.80 VDC	15 VDC $\pm$ 0.5%	400 mA	Figure 4
DC2-5-5/12	4.75 to 5.50 VDC	$\pm$ 12 VDC $\pm$ 0.5%	$\pm$ 250 mA	Figure 4
DC2-5-12/12	10.80 to 13.20 VDC	$\pm$ 12 VDC $\pm$ 0.5%	$\pm$ 250 mA	Figure 4
DC2-5-24/12	21.60 to 26.40 VDC	$\pm$ 12 VDC $\pm$ 0.5%	$\pm$ 250 mA	Figure 4
DC2-5-28/12	25.20 to 30.80 VDC	$\pm$ 12 VDC $\pm$ 0.5%	$\pm$ 250 mA	Figure 4
DC2-5-48/12	43.20 to 52.80 VDC	$\pm$ 12 VDC $\pm$ 0.5%	$\pm$ 250 mA	Figure 4
DC2-5-5/15	4.75 to 5.50 VDC	$\pm$ 15 VDC $\pm$ 0.5%	$\pm$ 200 mA	Figure 4
DC2-5-12/15	10.80 to 13.20 VDC	$\pm$ 15 VDC $\pm$ 0.5%	$\pm$ 200 mA	Figure 4
DC2-5-24/15	21.60 to 26.40 VDC	$\pm$ 15 VDC $\pm$ 0.5%	$\pm$ 200 mA	Figure 4
DC2-5-28/15	25.20 to 30.80 VDC	$\pm$ 15 VDC $\pm$ 0.5%	$\pm$ 200 mA	Figure 4
DC2-5-48/15	43.20 to 52.80 VDC	$\pm$ 15 VDC $\pm$ 0.5%	$\pm$ 200 mA	Figure 4

All dimensions are in INCHES  
MM



(BOTTOM VIEW)  
FIGURE 4

**POWER GENERAL**

152 Will Drive, PO Box 189, Canton, MA 02021-3798  
Tel. (617) 828-6216 Fax (617) 828-3215

## DC-DC CONVERTERS

- **Ultra High Reliability**
- **Six Sided Shielding**
- **Industry Standard Pin-Out**
- **Indefinite Short Circuit Protection**
- **5 Year Warranty**

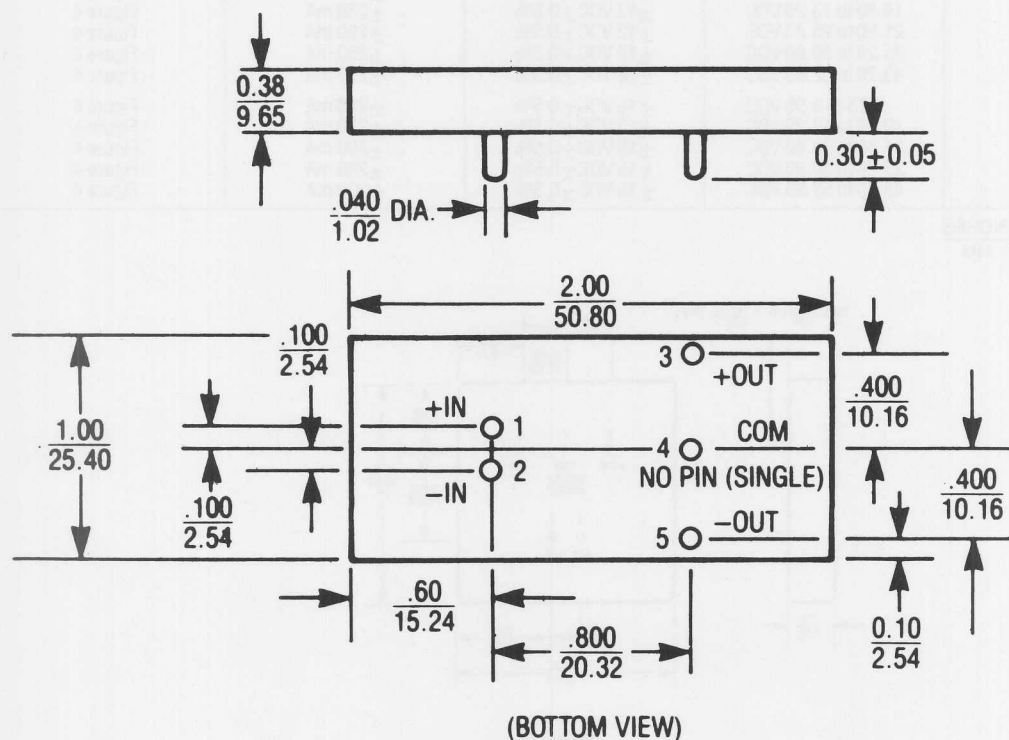


## 5 WATT NON-ISOLATED, SINGLE OUTPUT

5 WATT SINGLE OUTPUT, ENCAPSULATED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
DCU1-5-WR/5	7 to 32 VDC	+5 VDC $\pm$ 2%	1000 mA	Figure 2
DCU1-5-WR/12	14 to 32 VDC	+12 VDC $\pm$ 2%	600 mA	Figure 2
DCU1-5-WR/15	17 to 32 VDC	+15 VDC $\pm$ 2%	500 mA	Figure 2

## 6 WATT ISOLATED, DUAL OUTPUT

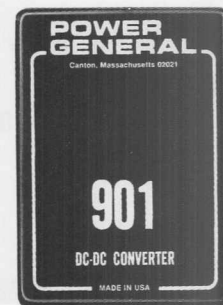
6 WATT DUAL OUTPUT, ENCAPSULATED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
623	5 VDC $\pm$ 10%	$\pm$ 12 VDC $\pm$ 3%	$\pm$ 250 mA	Figure 2
624	5 VDC $\pm$ 10%	$\pm$ 15 VDC $\pm$ 3%	$\pm$ 200 mA	Figure 2
625	5 VDC $\pm$ 10%	$\pm$ 18 VDC $\pm$ 3%	$\pm$ 165 mA	Figure 2

**FIGURE 2**



# DC-DC CONVERTERS

- 10 to 12 Watts Output Power
- 30 Models
- Industry Standard Pin-Out
- Single & Dual Outputs
- Compact Packaging



## 10 TO 12 WATT ISOLATED, SINGLE AND DUAL OUTPUT

10 WATT SINGLE & DUAL OUTPUT, ENCAPSULATED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
901	5 VDC $\pm$ 10%	5 VDC $\pm$ 1%	2000 mA	Figure 5
902	12 VDC $\pm$ 10%	5 VDC $\pm$ 1%	2000 mA	Figure 5
903	24 VDC $\pm$ 10%	5 VDC $\pm$ 1%	2000 mA	Figure 5
904	28 VDC $\pm$ 10%	5 VDC $\pm$ 1%	2000 mA	Figure 5
905	48 VDC $\pm$ 10%	5 VDC $\pm$ 1%	2000 mA	Figure 5
906	5 VDC $\pm$ 10%	9 VDC $\pm$ 1%	1200 mA	Figure 5
907	12 VDC $\pm$ 10%	9 VDC $\pm$ 1%	1200 mA	Figure 5
908	24 VDC $\pm$ 10%	9 VDC $\pm$ 1%	1200 mA	Figure 5
909	28 VDC $\pm$ 10%	9 VDC $\pm$ 1%	1200 mA	Figure 5
910	48 VDC $\pm$ 10%	9 VDC $\pm$ 1%	1200 mA	Figure 5
911	5 VDC $\pm$ 10%	12 VDC $\pm$ 1%	940 mA	Figure 5
912	12 VDC $\pm$ 10%	12 VDC $\pm$ 1%	940 mA	Figure 5
913	24 VDC $\pm$ 10%	12 VDC $\pm$ 1%	940 mA	Figure 5
914	28 VDC $\pm$ 10%	12 VDC $\pm$ 1%	940 mA	Figure 5
915	48 VDC $\pm$ 10%	12 VDC $\pm$ 1%	940 mA	Figure 5
916	5 VDC $\pm$ 10%	15 VDC $\pm$ 1%	800 mA	Figure 5
917	12 VDC $\pm$ 10%	15 VDC $\pm$ 1%	800 mA	Figure 5
918	24 VDC $\pm$ 10%	15 VDC $\pm$ 1%	800 mA	Figure 5
919	28 VDC $\pm$ 10%	15 VDC $\pm$ 1%	800 mA	Figure 5
920	48 VDC $\pm$ 10%	15 VDC $\pm$ 1%	800 mA	Figure 5
921	5 VDC $\pm$ 10%	$\pm$ 12 VDC $\pm$ 1%	$\pm$ 525 mA	Figure 5
922	12 VDC $\pm$ 10%	$\pm$ 12 VDC $\pm$ 1%	$\pm$ 525 mA	Figure 5
923	24 VDC $\pm$ 10%	$\pm$ 12 VDC $\pm$ 1%	$\pm$ 525 mA	Figure 5
924	28 VDC $\pm$ 10%	$\pm$ 12 VDC $\pm$ 1%	$\pm$ 525 mA	Figure 5
925	48 VDC $\pm$ 10%	$\pm$ 12 VDC $\pm$ 1%	$\pm$ 525 mA	Figure 5
926	5 VDC $\pm$ 10%	$\pm$ 15 VDC $\pm$ 1%	$\pm$ 410 mA	Figure 5
927	12 VDC $\pm$ 10%	$\pm$ 15 VDC $\pm$ 1%	$\pm$ 410 mA	Figure 5
928	24 VDC $\pm$ 10%	$\pm$ 15 VDC $\pm$ 1%	$\pm$ 410 mA	Figure 5
929	28 VDC $\pm$ 10%	$\pm$ 15 VDC $\pm$ 1%	$\pm$ 410 mA	Figure 5
930	48 VDC $\pm$ 10%	$\pm$ 15 VDC $\pm$ 1%	$\pm$ 410 mA	Figure 5

All dimensions are in INCHES  
MM

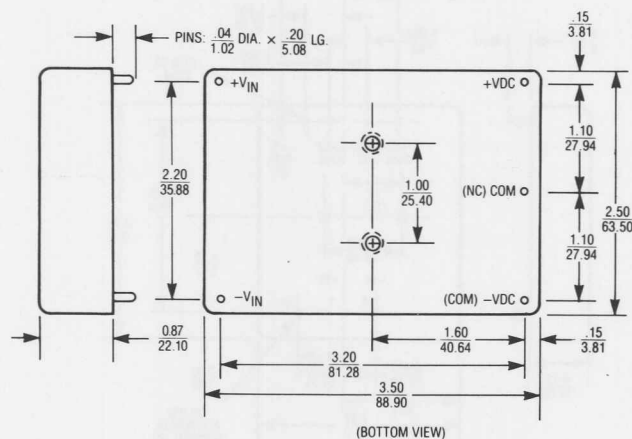


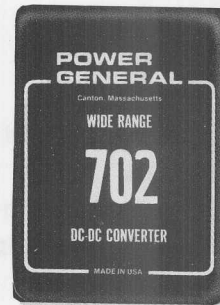
FIGURE 5

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## DC-DC CONVERTERS

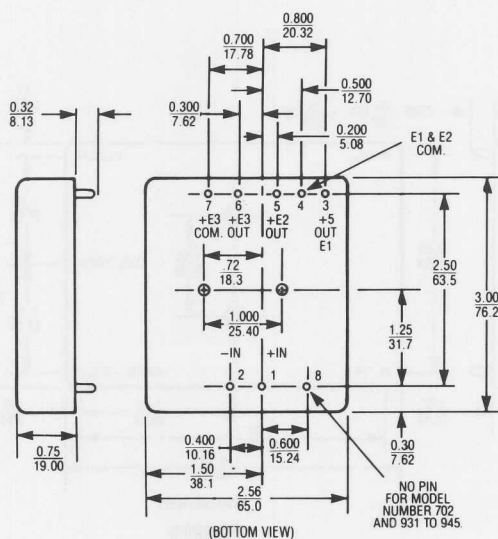
- 10 Watts Output Power
- Triple Outputs
- Industry Standard Pin-Out
- Compact Packaging



## 10 WATT ISOLATED, TRIPLE OUTPUT

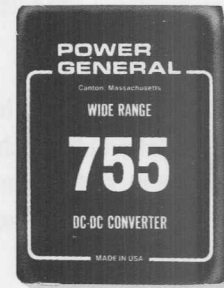
10 WATT TRIPLE OUTPUT, ENCAPSULATED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
931	5 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		$\pm 15$ VDC $\pm 1\%$	$\pm 165$ mA	Figure 6
932	12 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		$\pm 15$ VDC $\pm 1\%$	$\pm 165$ mA	Figure 6
933	24 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		$\pm 15$ VDC $\pm 1\%$	$\pm 165$ mA	Figure 6
934	28 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		$\pm 15$ VDC $\pm 1\%$	$\pm 165$ mA	Figure 6
935	48 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		$\pm 15$ VDC $\pm 1\%$	$\pm 165$ mA	Figure 6
936	5 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		$\pm 12$ VDC $\pm 1\%$	$\pm 200$ mA	Figure 6
937	12 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		$\pm 12$ VDC $\pm 1\%$	$\pm 200$ mA	Figure 6
938	24 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		$\pm 12$ VDC $\pm 1\%$	$\pm 200$ mA	Figure 6
939	28 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		$\pm 12$ VDC $\pm 1\%$	$\pm 200$ mA	Figure 6
940	48 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		$\pm 12$ VDC $\pm 1\%$	$\pm 200$ mA	Figure 6
941	5 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		+ 12 VDC $\pm 1\%$	300 mA	Figure 6
		- 5 VDC $\pm 2\%$	100 mA	Figure 6
942	12 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		+ 12 VDC $\pm 1\%$	300 mA	Figure 6
		- 5 VDC $\pm 2\%$	100 mA	Figure 6
943	24 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		+ 12 VDC $\pm 1\%$	300 mA	Figure 6
		- 5 VDC $\pm 2\%$	100 mA	Figure 6
944	28 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		+ 12 VDC $\pm 1\%$	300 mA	Figure 6
		- 5 VDC $\pm 2\%$	100 mA	Figure 6
945	48 VDC $\pm 10\%$	5 VDC $\pm 1\%$	1.00A	Figure 6
		+ 12 VDC $\pm 1\%$	300 mA	Figure 6
		- 5 VDC $\pm 2\%$	100 mA	Figure 6

All dimensions are in INCHES  
MM

**FIGURE 6**

# DC-DC CONVERTERS

- Ultra High Reliability
- Six Sided Shielding
- Industry Standard Pin-Out
- Indefinite Short Circuit Protection
- 5 Year Warranty



## 15 WATT, WIDE INPUT, ISOLATED SINGLE OUTPUT

15 WATT SINGLE OUTPUT, ENCAPSULATED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
702	7.0 to 40 VDC	5 VDC $\pm 1\%$	3.00A	Figure 7
702A	7.0 to 40 VDC	5 VDC $\pm 1\%$	3.00A	Figure 7

All dimensions are in INCHES  
MM

## 15 WATT ISOLATED, SINGLE OUTPUT

15 WATT SINGLE OUTPUT ISOLATED, ENCAPSULATED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
750	9 to 18 VDC	5 VDC $\pm 1\%$	3.00A	Figure 7
751	18 to 36 VDC	5 VDC $\pm 1\%$	3.00A	Figure 7
752	36 to 72 VDC	5 VDC $\pm 1\%$	3.00A	Figure 7
753	9 to 18 VDC	6 VDC $\pm 1\%$	2.50A	Figure 7
754	18 to 36 VDC	6 VDC $\pm 1\%$	2.50A	Figure 7
755	36 to 72 VDC	6 VDC $\pm 1\%$	2.50A	Figure 7
756	9 to 18 VDC	12 VDC $\pm 1\%$	1.25A	Figure 7
757	18 to 36 VDC	12 VDC $\pm 1\%$	1.25A	Figure 7
758	36 to 72 VDC	12 VDC $\pm 1\%$	1.25A	Figure 7
759	9 to 18 VDC	15 VDC $\pm 1\%$	1.00A	Figure 7
760	18 to 36 VDC	15 VDC $\pm 1\%$	1.00A	Figure 7
761	36 to 72 VDC	15 VDC $\pm 1\%$	1.00A	Figure 7

## 30 WATT ISOLATED, DUAL OUTPUT

30 WATT DUAL OUTPUT, ENCAPSULATED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
720	9 to 18 VDC	$\pm 12$ VDC $\pm 1\%$	$\pm 1.25$ A	Figure 8
721	18 to 36 VDC	$\pm 12$ VDC $\pm 1\%$	$\pm 1.25$ A	Figure 8
722	36 to 72 VDC	$\pm 12$ VDC $\pm 1\%$	$\pm 1.25$ A	Figure 8
723	9 to 18 VDC	$\pm 15$ VDC $\pm 1\%$	$\pm 1.00$ A	Figure 8
724	18 to 36 VDC	$\pm 15$ VDC $\pm 1\%$	$\pm 1.00$ A	Figure 8
725	36 to 72 VDC	$\pm 15$ VDC $\pm 1\%$	$\pm 1.00$ A	Figure 8

All dimensions are in INCHES  
MM

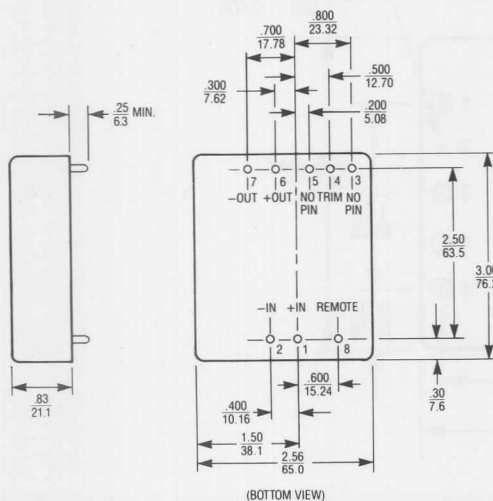


FIGURE 7

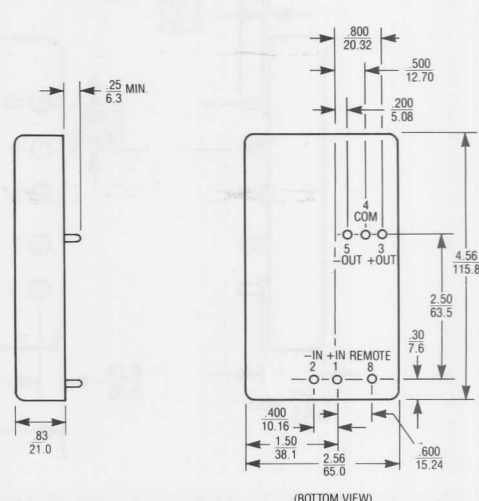


FIGURE 8

**POWER GENERAL**

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## SURFACE MOUNT - DC-DC CONVERTERS

- **Low Profile (0.375 inches)**
- **8.1 Watts/Cubic Inch**
- **2:1 Input Voltage Range**
- **25 Watts Output Power**
- **300,000 Hrs MTBF**



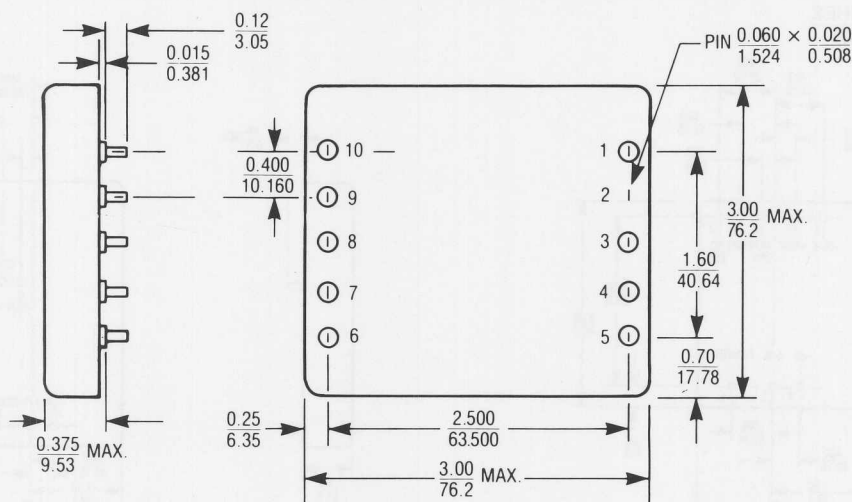
## 25 WATT, LOW PROFILE, ISOLATED SINGLE OUTPUT

25 WATT, LOW PROFILE, SINGLE OUTPUT, ENCLOSED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
LP-310 A	9.8-18 VDC	5 VDC $\pm$ 1%	5.00A	Figure 9
LP-310 B	18-36 VDC	5 VDC $\pm$ 1%	5.00A	Figure 9
LP-310 C	36-72 VDC	5 VDC $\pm$ 1%	5.00A	Figure 9
LP-311 A	9.8-18 VDC	12 VDC $\pm$ 1%	2.08A	Figure 9
LP-311 B	18-36 VDC	12 VDC $\pm$ 1%	2.08A	Figure 9
LP-311 C	36-72 VDC	12 VDC $\pm$ 1%	2.08A	Figure 9
LP-312 A	9.8-18 VDC	15 VDC $\pm$ 1%	1.67A	Figure 9
LP-312 B	18-36 VDC	15 VDC $\pm$ 1%	1.67A	Figure 9
LP-312 C	36-72 VDC	15 VDC $\pm$ 1%	1.67A	Figure 9

All dimensions are in INCHES  
MM

## 25 WATT LOW PROFILE, ISOLATED TRIPLE OUTPUT

25 WATT, LOW PROFILE, TRIPLE OUTPUT, ENCLOSED				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	CASE STYLE
LP-315 A	9.8-18 VDC	+5 VDC $\pm$ 1% $\pm$ 12 VDC $\pm$ 2%	4.00A $\pm$ 0.25A	Figure 9 Figure 9
LP-315 B	18-36 VDC	+5 VDC $\pm$ 1% $\pm$ 12 VDC $\pm$ 2%	4.00A $\pm$ 0.25A	Figure 9 Figure 9
LP-315 C	36-72 VDC	+5 VDC $\pm$ 1% $\pm$ 12 VDC $\pm$ 2%	4.00A $\pm$ 0.25A	Figure 9 Figure 9
LP-316 A	9.8-18 VDC	+5 VDC $\pm$ 1% $\pm$ 15 VDC $\pm$ 2%	4.00A $\pm$ 0.25A	Figure 9 Figure 9
LP-316 B	18-36 VDC	+5 VDC $\pm$ 1% $\pm$ 15 VDC $\pm$ 2%	4.00A $\pm$ 0.25A	Figure 9 Figure 9
LP-316 C	36-72 VDC	+5 VDC $\pm$ 1% $\pm$ 15 VDC $\pm$ 2%	4.00A $\pm$ 0.25A	Figure 9 Figure 9



(BOTTOM VIEW)

FIGURE 9

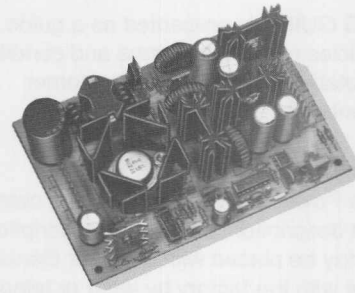
# POWER GENERAL

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## OPEN FRAME - DC-DC CONVERTERS

- 2:1 Input Voltage Range
- 1500 VDC Input/Output Isolation
- 50 - 100 Watts Output Power
- Open Frame Construction



### 50 WATT, OPEN FRAME, ISOLATED TRIPLE OUTPUT

50 WATT TRIPLE OUTPUT OPEN FRAME				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	DIMENSIONS (W"xL"xH")
DC50-1	12, 24 or 48 VDC	5 VDC ADJ	6.00A	4.00×6.00×1.75
		12 VDC±4%	1.00A	4.00×6.00×1.75
		12 VDC±4%	1.00A	4.00×6.00×1.75
DC50-2	12, 24 or 48 VDC	5 VDC ADJ	6.00A	4.00×6.00×1.75
		15 VDC±4%	1.00A	4.00×6.00×1.75
		15 VDC±4%	1.00A	4.00×6.00×1.75
DC50-3	12, 24 or 48 VDC	5 VDC ADJ	6.00A	4.00×6.00×1.75
		12 VDC±10%	3.00A (5A Pk)	4.00×6.00×1.75
		12 VDC±10%	0.50A	4.00×6.00×1.75
DC50-4	12, 24 or 48 VDC	5 VDC ADJ	6.00A	4.00×6.00×1.75
		12 VDC±10%	3.00A (5A Pk)	4.00×6.00×1.75
		5 VDC±10%	1.00A	4.00×6.00×1.75

### 50 TO 72 WATT, OPEN FRAME, ISOLATED SINGLE OUTPUT

50 TO 72WATT SINGLE OUTPUT OPEN FRAME				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	DIMENSIONS (W"xL"xH")
DC60-1	12, 24 or 48 VDC	5 VDC ADJ	12.00A	4.00×6.00×1.75
DC60-2	12, 24 or 48 VDC	12 VDC ADJ	6.00A	4.00×6.00×1.75
DC60-3	12, 24 or 48 VDC	15 VDC ADJ	4.80A	4.00×6.00×1.75
DC60-4	12, 24 or 48 VDC	24 VDC ADJ	3.00A	4.00×6.00×1.75

### 85 TO 100 WATT, OPEN FRAME, ISOLATED TRIPLE OUTPUT

100 WATT TRIPLE OUTPUT ISOLATED, OPEN FRAME				
MODEL NUMBER	INPUT VOLTAGE	OUTPUT VOLTAGE	OUTPUT CURRENT	DIMENSIONS (W"xL"xH")
DC100-1	12, 24 or 48 VDC	5 VDC ADJ	12.00A	4.20×8.50×2.20
		10-16 VDC ADJ	5.00A	4.20×8.50×2.20
		10-16 VDC ADJ	1.00A	4.20×8.50×2.20
DC100-2	12, 24 or 48 VDC	5 VDC ADJ	12.00A	4.20×8.50×2.20
		20-30 VDC ADJ	3.00A	4.20×8.50×2.20
		10-16 VDC ADJ	1.00A	4.20×8.50×2.20

# ORDERING GUIDE

This ORDERING GUIDE is presented as a guide. For a formal statement of policies refer to the terms and conditions of sale found on the quotation form or on the customer acknowledgement copy of the sales order.

## PLACING AN ORDER:

When ordering a Power General product, the complete model number, product description, and option description should be given. Orders may be placed with a Power General field sales representative or with the factory by letter or telephone. MINIMUM ORDER IS \$1,000.

## OUTSIDE THE U.S.A. and CANADA:

Orders should be placed with the Authorized Power General Sales Representative in your country. In countries without a Power General Representative, orders should be placed by FAX and confirmed by air mail.

## FIELD SALES ORGANIZATIONS :

Power General employs field sales representatives and stocking distributors throughout the United States, Canada and Europe. These sales organizations are the only ones authorized by Power General to solicit sales, and any information or data received from sources other than the Power General factory cannot be considered binding.

## PRICES:

All prices are F.O.B., Canton, Massachusetts, U.S.A. in U.S. dollars. Applicable federal, state, and local taxes are extra and paid by buyer. Prices are subject to change without notice.

## TERMS:

Net 30 Days

## DISCOUNTS:

Quantity discounts are available when placed in a single order. OEM discounts are available on an order or contract basis; consult your sales representative for details.

## QUOTATIONS:

Price quotations made by Power General or its authorized field sales representatives are valid for 30 days unless otherwise stated. Delivery quotations are subject to change due to prior sales.

## DELIVERY:

All orders placed with Power General are acknowledged within a few days by an acknowledgement copy of our sales order form. This copy will indicate pertinent information including a formal statement of terms and conditions of sale and estimated delivery date. This date has precedence over all other agreed upon dates unless otherwise specified.

All products are shipped in rugged commercial containers suitable for insuring safe delivery under normal shipping conditions. Unless shipping method is specified, the best available method will be used. UPS, UPS Blue Label, Parcel Post, and Air Parcel Post are among the methods normally used. Power General recommends insurance on Parcel Post and Air Parcel Post shipments for tracing purposes.

## ORDER CANCELLATION:

All orders entered with Power General are binding. If an order is postponed or cancelled, Power General reserves the right to impose cancellation charges. Amount of charges will be determined on an individual basis and in no case will exceed the actual expenses incurred by Power General in filling the order in question to the extent that such expenses are not recoverable in the normal course of business.

## WARRANTY

Power General warrants that its products are free from defects in material and workmanship under normal use and service for a period of two (2) years from date of shipment. Power General's obligations under this warranty are limited to replacing or repairing, at its option, any products returned to Power General's facility within the applicable period and which are after examination found to be defective. This warranty does not apply to any products which have been repaired or altered except by Power General or which have been subjected to misuse, negligence, or accident. In no case will Power General's liability exceed the original purchase price. The aforementioned provisions do not extend the original warranty period of any product which has either been repaired or replaced by Power General.

## RETURNS:

When returning products for any reason, contact the factory first for a Return Material Authorization number and shipping instructions. Items returned without an RMA number or not in accordance with Power General's instructions will not be received at the factory and will be returned, unopened, to the sender.

## RETURNS OUTSIDE THE U.S.A. and CANADA:

Contact the local sales representative or factory for authorization and shipping instructions first.

## SAFETY INFORMATION

APPLICABLE PRODUCT SAFETY INFORMATION  
AVAILABLE UPON REQUEST.

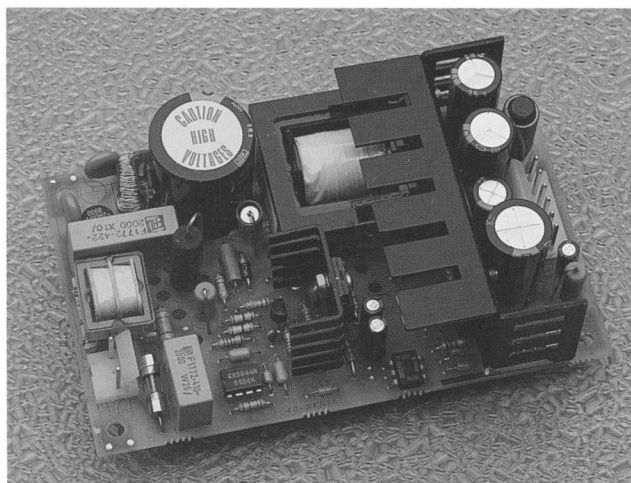
## For Further Information

For complete product specifications, pricing and/or delivery information; please contact your nearest Power General sales representative or stocking distributor. For applications or customer service assistance, contact:

### Power General

152 Will Drive  
Canton, MA 02021  
Phone (617) 828-6216  
Fax (617) 828-3215 or (617) 828-5060

## QUALITY BY DESIGN



Power General has taken the continuous improvement approach to quality, involving every individual in the company. We use cross-functional Quality Improvement Teams, each one championed by a plant staff member. The purpose of these teams is statistical training, problem identification, resolution, prevention, and customer satisfaction.

We already have made measurable improvements in many areas, and have targeted other areas for similar corrective action. We believe that improvement is a continuing process without limit.

Recent additions of Automatic Functional Testing, Assembly and In-Circuit Testing Equipment further complement our customized Burn-In Chambers and Environmental Lab to ensure that Power General brings to market reliable product designs and volume production with consistently high quality.

We continue to refine and expand our program as we focus our internal culture on improvement through quality.

Dan Kazarian  
Director of Quality



# POWER GENERAL

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## TECHNOLOGY BY DESIGN

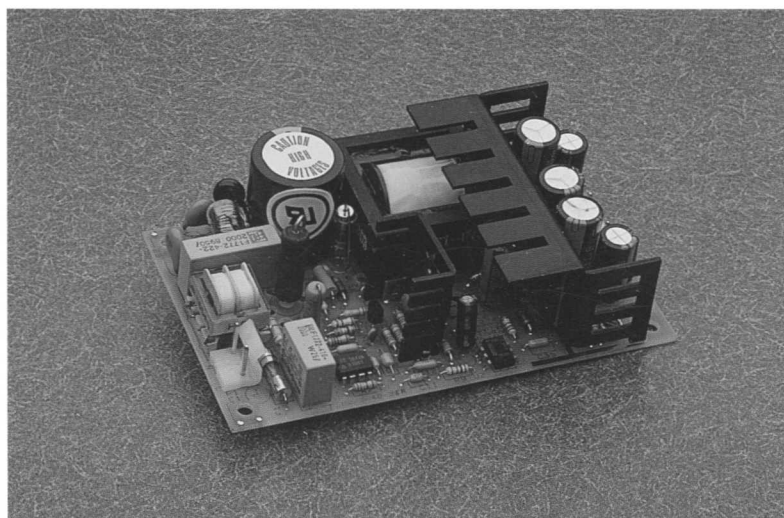
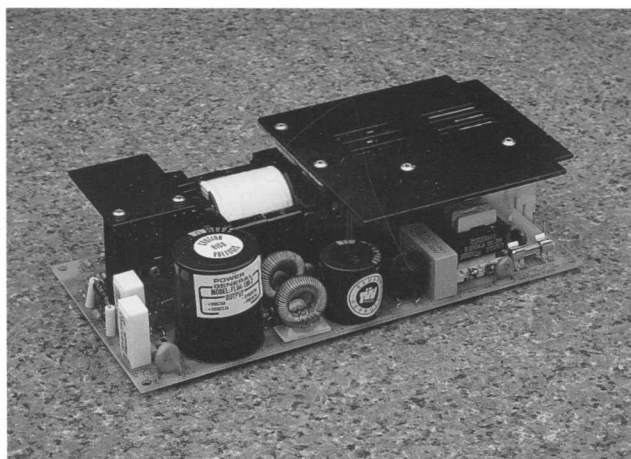


This catalog includes a full offering of 25W to 100W universal input switching power supplies. On the DC-DC converter side, are additional wide input range, high density products. Both product lines continue the use of surface mount technology and automated assembly to increase power density and product reliability.

Our product design strategy has twin objectives; Design by listening to customers and design for manufacture. We implement this with on-site visits to customers by Product Engineers and a design team approach within the factory.

We will continue to introduce standard products which serve the performance conscious marketplace. By having a strong platform offering, we further expect to be capable of providing application specific products for our volume oriented customers. Lastly, with our parent company Unitrode, a leader in power management IC's, you'll continue to see **POWER GENERAL**, the source for exciting, innovative products.

  
George Harlan  
Director of Engineering



**POWER  
GENERAL**  
A SUBSIDIARY OF UNITRODE CORPORATION

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